

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,110,444 B1  
APPLICATION NO. : 09/632856  
DATED : September 19, 2006  
INVENTOR(S) : Sorrells et al.

Page 1 of 4

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

ON TITLE PAGE

Item (56)

Under "U.S. Patent Documents", please insert the following citations:

4,870,659	09/1989	Oishi et al.
4,871,987	10/1989	Kawase
4,885,587	12/1989	Wiegand et al.
4,885,756	12/1989	Fontanes et al.
4,888,557	12/1989	Puckette, IV et al.
4,890,302	12/1989	Muilwijk
4,893,316	01/1990	Janc et al.
4,893,341	01/1990	Gehring
4,894,766	01/1990	De Agro
4,896,152	01/1990	Tiemann
4,902,979	02/1990	Puckette, IV
4,908,579	03/1990	Tawfik et al.
4,910,752	03/1990	Yester, Jr. et al.
4,914,405	04/1990	Wells
4,920,510	04/1990	Senderowicz et al.
4,922,452	05/1990	Larsen et al.
4,931,921	06/1990	Anderson
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4,955,079	09/1990	Connerney et al.
4,965,467	10/1990	Bilteijst
4,967,160	10/1990	Quienvy et al.
4,970,703	11/1990	Hariharan et al.
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5,006,810	04/1991	Popescu
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5,015,963	05/1991	Sutton
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5,052,050	09/1991	Collier et al.
5,065,409	11/1991	Hughes et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Item (56)

Under "Foreign Patent Documents", please insert the following citations:

JP 6-237276	08/1994
JP 8-23359	01/1996
JP 47-2314	02/1972
JP 58-7903	01/1983
JP 58-133004	08/1983
JP 60-58705	04/1985
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JP 5-175730	07/1993
JP 5-175734	07/1993
JP 7-154344	06/1995
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JP 55-66057	05/1980
JP 63-65587	03/1988
JP 63-153691	06/1988
EP 0 276 130 A2&A3	07/1988

Under "Other Publications", please insert the following citations:

Karasawa, Y. *et al.*, "A New Prediction Method for Tropospheric Scintillation on Earth-Space Paths," *IEEE Transactions on Antennas and Propagation*, IEEE Antennas and Propagation Society, Vol. 36, No. 11, pp. 1608-1614 (November 1988).

Kirsten, J. and Fleming, J., "Undersampling reduces data-acquisition costs for select applications," *EDN*, Cahners Publishing, Vol. 35, No. 13, pp. 217-222, 224, 226-228 (June 21, 1990).

Lam, W.K. *et al.*, "Measurement of the Phase Noise Characteristics of an Unlocked Communications Channel Identifier," *Proceedings Of the 1993 IEEE International Frequency Control Symposium*, IEEE, pp. 283-288 (June 2-4, 1993).

Lam, W.K. *et al.*, "Wideband sounding of 11.6 Ghz transhorizon channel," *Electronics Letters*, IEE, Vol. 30, No. 9, pp. 738-739 (April 28, 1994).

Larkin, K.G, "Efficient demodulator for bandpass sampled AM signals," *Electronics Letters*, IEE, Vol. 32, No. 2, pp. 101-102 (January 18, 1996).

Lau, W.H. *et al.*, "Analysis of the Time Variant Structure of Microwave Line-of-sight Multipath Phenomena," *IEEE Global Telecommunications Conference & Exhibition*, IEEE, pp. 1707-1711 (November 28 - December 1, 1988).

Lau, W.H. *et al.*, "Improved Prony Algorithm to Identify Multipath Components," *Electronics Letters*, IEE, Vol. 23, No. 20, pp. 1059-1060 (September 24, 1987).

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Under "Other Publications", please insert the following citations (cont'd):

Lesage, P. and Audoin, C., "Effect of Dead-Time on the Estimation of the Two-Sample Variance," *IEEE Transactions on Instrumentation and Measurement*, IEEE Instrumentation and Measurement Society, Vol. IM-28, No. 1, pp. 6-10 (March 1979).

Liechti, C.A., "Performance of Dual-gate GaAs MESFET's as Gain-Controlled Low-Noise Amplifiers and High-Speed Modulators," *IEEE Transactions on Microwave Theory and Techniques*, IEEE Microwave Theory and Techniques Society, Vol. MTT-23, No. 6, pp. 461-469 (June 1975).

Linnenbrink, T.E. et al., "A One Gigasample Per Second Transient Recorder," *IEEE Transactions on Nuclear Science*, IEEE Nuclear and Plasma Sciences Society, Vol. NS-26, No. 4, pp. 4443-4449 (August 1979).

Liou, M.L., "A Tutorial on Computer-Aided Analysis of Switched-Capacitor Circuits," *Proceedings of the IEEE*, IEEE, Vol. 71, No. 8, pp. 987-1005 (August 1983).

Lo, P. et al., "Coherent Automatic Gain Control," *IEE Colloquium on Phase Locked Techniques*, IEE, pp. 2/1-2/6 (March 26, 1980).

Lo, P. et al., "Computation of Rain Induced Scintillations on Satellite Down-Links at Microwave Frequencies," *Third International Conference on Antennas and Propagation (ICAP 83)*, pp. 127-131 (April 12-15, 1983).

Lo, P.S.L.O. et al., "Observations of Amplitude Scintillations on a Low-Elevation Earth-Space Path," *Electronics Letters*, IEE, Vol. 20, No. 7, pp. 307-308 (March 29, 1984).

Madani, K. and Aithison, C.S., "A 20 Ghz Microwave Sampler," *IEEE Transactions on Microwave Theory and Techniques*, IEEE Microwave Theory and Techniques Society, Vol. 40, No. 10, pp. 1960-1963 (October 1992).

Marsland, R.A. et al., "130 Ghz GaAs monolithic integrated circuit sampling head," *Appl. Phys. Lett.*, American Institute of Physics, Vol. 55, No. 6, pp. 592-594 (August 7, 1989).

Martin, K. and Sedra, A.S., "Switched-Capacitor Building Blocks for Adaptive Systems," *IEEE Transactions on Circuits and Systems*, IEEE Circuits and Systems Society, Vol. CAS-28, No. 6, pp. 576-584 (June 1981).

Marzano, F.S. and d'Auria, G., "Model-based Prediction of Amplitude Scintillation variance due to Clear-Air Tropospheric Turbulence on Earth-Satellite Microwave Links," *IEEE Transactions on Antennas and Propagation*, IEEE Antennas and Propagation Society, Vol. 46, No. 10, pp. 1506-1518 (October 1998).

Matricciani, E., "Prediction of fade durations due to rain in satellite communication systems," *Radio Science*, American Geophysical Union, Vol. 32, No. 3, pp. 935-941 (May-June 1997).

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Section (56)

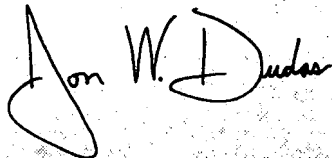
Under "Other Publications", please insert the following citations (cont'd):

McQueen, J.G., "The Monitoring of High-Speed Waveforms," *Electronic Engineering*, Morgan Brothers Limited, Vol. XXIV, No. 296, pp. 436-441 (October 1952).

This certificate supersedes Certificate of Correction issued August 7, 2007.

Signed and Sealed this

Twenty-eighth Day of August, 2007

A handwritten signature in black ink, reading "Jon W. Dudas". The signature is written in a cursive style with a large, stylized "J" and "D".

JON W. DUDAS  
Director of the United States Patent and Trademark Office